

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P256907

Luminaire Tested: **HGL-S-BA-80L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1803-682-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BA-80L940-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11961.5 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

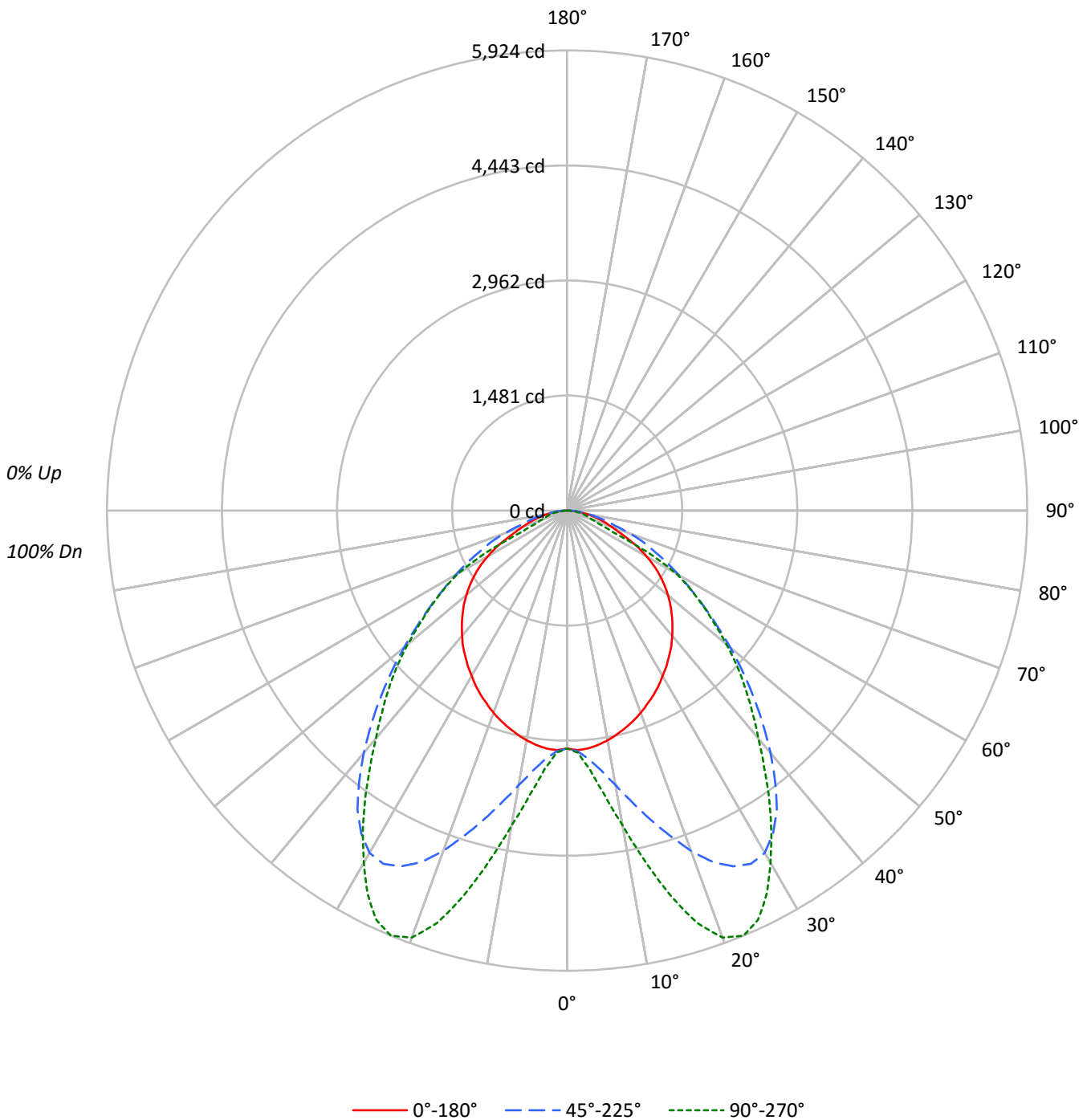
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17979	17979	17979
5°	18119	18863	19633
10°	17898	21273	24360
15°	17598	24759	30795
20°	17305	28777	35973
25°	16988	32261	36916
30°	16651	33873	34620
35°	16390	32997	31532
40°	16110	30411	28335
45°	15813	27315	25858
50°	15449	24112	23244
55°	14877	21033	20546
60°	13867	18471	17707
65°	12017	16005	7916
70°	10338	13497	5471
75°	9474	10478	4947
80°	8514	8524	4328
85°	7073	7430	2957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	2.7
10°-20°	1157.9	9.7
20°-30°	2095.8	17.5
30°-40°	2515.1	21.0
40°-50°	2382.6	19.9
50°-60°	1866.9	15.6
60°-70°	1041.9	8.7
70°-80°	441.5	3.7
80°-90°	137.4	1.1
90°-100°	4.9	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3571.1	29.9
0°-40°	6086.2	50.9
0°-60°	10335.7	86.4
0°-90°	11956.6	100.0
90°-120°	4.9	0.0
90°-150°	4.9	0.0
90°-180°	5.0	0.0
0°-180°	11961.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3062	3062	3062	3062	3062	
5°	3075	3087	3209	3316	3344	291
15°	2896	3244	4108	4863	5126	817
25°	2624	3447	5054	5670	5814	1209
35°	2289	3526	4706	4509	4534	1432
45°	1907	3228	3394	3156	3250	1470
55°	1456	2345	2148	2079	2132	1297
65°	867	1083	1230	989	623	867
75°	420	435	517	366	254	447
85°	106	122	150	116	66	118
90°	0	25	47	31	0	6
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2
2.5°	3087.2	3084.1	3074.7	3062.2	3065.3	3068.5	3068.5	3071.6	3074.7	3084.1	3102.9
5°	3074.7	3068.5	3065.3	3062.2	3077.8	3087.2	3096.6	3115.4	3137.3	3171.8	3209.4
7.5°	3043.4	3043.4	3049.7	3062.2	3096.6	3118.6	3137.3	3184.3	3237.5	3303.3	3375.3
10°	3002.7	3009.0	3027.8	3055.9	3118.6	3153.0	3190.6	3268.8	3359.6	3469.2	3588.2
12.5°	2952.6	2965.1	2996.4	3049.7	3143.6	3196.8	3253.2	3372.2	3506.8	3663.4	3838.7
15°	2896.2	2911.9	2962.0	3040.3	3168.6	3243.8	3322.1	3484.9	3669.6	3879.4	4108.0
17.5°	2836.8	2858.7	2927.6	3037.1	3203.1	3297.0	3397.2	3610.1	3848.1	4101.7	4383.5
20°	2771.0	2802.3	2890.0	3030.9	3234.4	3350.3	3472.4	3738.5	4029.7	4330.3	4659.0
22.5°	2695.9	2736.6	2846.1	3018.4	3265.7	3403.5	3547.5	3857.5	4195.6	4536.9	4893.9
25°	2623.8	2667.7	2796.1	3002.7	3290.8	3447.3	3613.3	3967.1	4345.9	4706.0	5053.6
27.5°	2545.6	2595.7	2749.1	2987.0	3309.5	3484.9	3669.6	4057.9	4455.5	4812.5	5125.6
30°	2457.9	2523.6	2695.9	2962.0	3318.9	3513.1	3713.5	4129.9	4524.4	4837.5	5088.0
32.5°	2376.5	2448.5	2636.4	2933.8	3322.1	3528.7	3741.6	4151.8	4524.4	4781.2	4931.4
35°	2288.8	2367.1	2576.9	2899.4	3309.5	3525.6	3738.5	4145.5	4458.7	4634.0	4706.0
37.5°	2201.1	2285.7	2514.3	2852.4	3281.4	3503.7	3716.6	4082.9	4324.0	4417.9	4399.2
40°	2104.1	2198.0	2432.8	2792.9	3231.3	3447.3	3650.8	3973.3	4126.8	4142.4	4073.5
42.5°	2007.0	2104.1	2351.4	2714.6	3146.7	3353.4	3541.2	3798.0	3870.0	3835.6	3729.1
45°	1906.8	2007.0	2254.4	2620.7	3040.3	3228.1	3384.7	3569.4	3569.4	3506.8	3394.1
47.5°	1803.5	1900.6	2151.0	2511.1	2902.5	3065.3	3193.7	3303.3	3253.2	3174.9	3062.2
50°	1693.9	1791.0	2035.2	2379.6	2724.0	2858.7	2965.1	3005.8	2927.6	2839.9	2739.7
52.5°	1578.1	1675.1	1897.4	2213.7	2514.3	2614.4	2692.7	2689.6	2595.7	2517.4	2429.7
55°	1456.0	1543.6	1744.0	2016.4	2263.8	2345.2	2392.1	2354.6	2266.9	2194.9	2147.9
57.5°	1327.6	1399.6	1571.8	1794.1	1978.8	2041.5	2069.6	2019.5	1956.9	1913.1	1888.0
60°	1183.5	1243.0	1365.1	1537.4	1672.0	1715.8	1734.6	1700.2	1678.3	1665.7	1659.5
62.5°	1033.3	1061.4	1139.7	1252.4	1365.1	1396.5	1418.4	1424.6	1421.5	1427.8	1443.4
65°	867.3	876.7	901.8	958.1	1045.8	1083.4	1124.1	1167.9	1192.9	1218.0	1230.5
67.5°	713.9	717.0	729.5	748.3	782.8	823.5	857.9	923.7	980.0	1027.0	1058.3
70°	604.3	601.2	604.3	613.7	632.5	648.1	663.8	710.8	770.2	848.5	854.8
72.5°	510.4	507.2	510.4	516.6	522.9	529.2	538.5	557.3	591.8	638.7	648.1
75°	419.6	419.6	419.6	425.8	432.1	435.2	441.5	447.7	460.3	494.7	516.6
77.5°	335.0	331.9	338.2	341.3	344.4	350.7	353.8	360.1	366.3	378.9	394.5
80°	253.6	250.5	253.6	259.9	263.0	269.3	269.3	278.7	281.8	291.2	297.5
82.5°	178.5	175.3	178.5	184.7	184.7	191.0	194.1	200.4	206.7	212.9	219.2
85°	106.5	106.5	109.6	112.7	115.8	122.1	125.2	134.6	140.9	147.2	150.3
87.5°	47.0	47.0	50.1	53.2	59.5	65.8	68.9	75.1	81.4	90.8	90.8
90°	0.0	3.1	9.4	15.7	18.8	25.0	25.0	34.4	37.6	43.8	47.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	6.3	9.4	12.5
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2	3062.2
2.5°	3131.1	3112.3	3124.8	3127.9	3131.1	3124.8	3118.6	3124.8	3118.6	3118.6
5°	3256.3	3253.2	3284.5	3306.4	3315.8	3315.8	3334.6	3347.1	3350.3	3344.0
7.5°	3453.6	3472.4	3535.0	3578.8	3603.9	3616.4	3650.8	3669.6	3694.7	3691.5
10°	3713.5	3772.9	3866.9	3929.5	3973.3	3995.3	4045.4	4079.8	4120.5	4117.4
12.5°	3998.4	4108.0	4239.5	4339.7	4405.4	4446.1	4511.9	4574.5	4612.1	4615.2
15°	4320.9	4471.2	4649.6	4778.0	4862.6	4915.8	5006.6	5069.2	5131.8	5125.6
17.5°	4637.1	4818.7	5034.8	5203.8	5282.1	5332.2	5441.8	5507.6	5567.1	5567.1
20°	4918.9	5128.7	5347.9	5504.4	5579.6	5629.7	5723.6	5789.4	5833.2	5848.9
22.5°	5144.4	5338.5	5523.2	5657.9	5704.8	5745.5	5817.5	5870.8	5898.9	5924.0
25°	5269.6	5426.2	5551.4	5645.3	5670.4	5692.3	5733.0	5773.7	5780.0	5814.4
27.5°	5272.7	5388.6	5457.5	5491.9	5495.0	5495.0	5523.2	5538.9	5551.4	5563.9
30°	5160.0	5213.2	5225.8	5228.9	5213.2	5203.8	5222.6	5225.8	5235.2	5235.2
32.5°	4934.6	4947.1	4925.2	4890.7	4881.3	4862.6	4875.1	4868.8	4884.5	4893.9
35°	4646.5	4624.6	4568.2	4543.2	4508.8	4499.4	4508.8	4502.5	4511.9	4533.8
37.5°	4317.8	4270.8	4223.8	4180.0	4154.9	4129.9	4139.3	4148.7	4161.2	4167.5
40°	3979.6	3917.0	3866.9	3823.0	3798.0	3779.2	3794.9	3804.3	3832.4	3832.4
42.5°	3638.3	3569.4	3519.3	3491.2	3472.4	3456.7	3481.8	3488.0	3522.5	3528.7
45°	3300.2	3240.7	3200.0	3171.8	3156.1	3162.4	3187.4	3203.1	3234.4	3250.1
47.5°	2990.2	2940.1	2896.2	2883.7	2883.7	2890.0	2915.0	2930.7	2955.7	2974.5
50°	2686.5	2648.9	2620.7	2605.1	2608.2	2617.6	2639.5	2652.0	2677.1	2677.1
52.5°	2389.0	2364.0	2351.4	2332.7	2332.7	2329.5	2351.4	2364.0	2382.7	2385.9
55°	2129.1	2107.2	2094.7	2082.2	2079.0	2085.3	2097.8	2107.2	2129.1	2132.3
57.5°	1881.8	1872.4	1863.0	1853.6	1850.5	1853.6	1859.9	1866.1	1878.6	1881.8
60°	1656.3	1653.2	1640.7	1631.3	1628.2	1625.0	1621.9	1618.8	1625.0	1621.9
62.5°	1449.7	1440.3	1430.9	1412.1	1402.7	1377.7	1346.4	1277.5	1221.1	1189.8
65°	1246.2	1239.9	1196.1	1067.7	989.4	889.2	782.8	679.4	645.0	623.1
67.5°	1048.9	945.6	789.0	676.3	635.6	598.0	541.7	485.3	454.0	435.2
70°	754.6	666.9	594.9	532.3	504.1	482.2	438.4	397.6	369.5	356.9
72.5°	610.6	554.2	507.2	460.3	438.4	413.3	369.5	328.8	303.7	291.2
75°	510.4	475.9	429.0	385.1	366.3	347.5	316.2	284.9	263.0	253.6
77.5°	403.9	385.1	356.9	322.5	306.8	294.3	266.1	244.2	222.3	212.9
80°	297.5	291.2	272.4	247.4	234.8	225.4	203.5	184.7	165.9	159.7
82.5°	219.2	212.9	197.3	178.5	172.2	162.8	147.2	131.5	119.0	112.7
85°	150.3	147.2	134.6	122.1	115.8	109.6	93.9	81.4	72.0	65.8
87.5°	93.9	90.8	84.5	72.0	65.8	59.5	47.0	37.6	28.2	25.0
90°	47.0	47.0	43.8	34.4	31.3	28.2	18.8	9.4	3.1	0.0
92.5°	12.5	12.5	12.5	9.4	9.4	6.3	3.1	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P256907

CATALOG NUMBER: HGL-S-BA-80L940-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)